

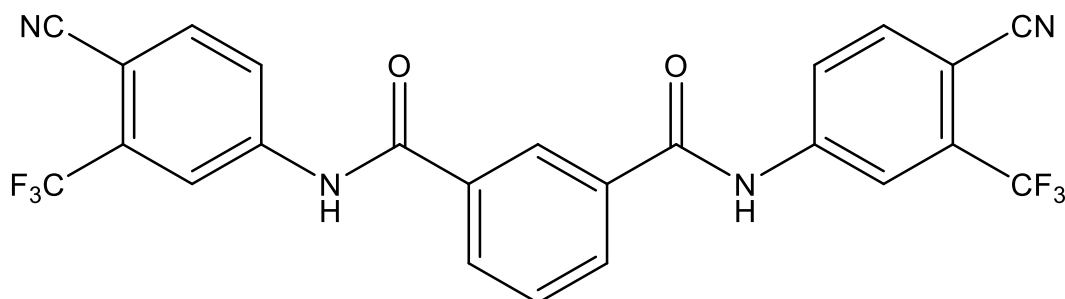
**Catalog # 10-3582**

**DJ-V 159**

CAS# 2253744-53-3

N<sup>1</sup>,N<sup>3</sup>-Bis(4-cyano-3-(trifluoromethyl)phenyl)isophthalamide

Lot # S105031



GPRC6A is the receptor for osteocalcin as well as structurally unrelated ligands including L-amino acids, cations and anabolic steroids.<sup>1</sup> GPRC6A is a potential therapeutic target for treating type 2 diabetes.<sup>2</sup> DJ-V 159 is an agonist at GPRC6A which activates ERK and upregulates cAMP levels in HEK-193 cells expressing GPRC6A. It stimulates insulin secretion in mouse  $\beta$ -cells and lowers blood glucose in mouse models.<sup>3</sup>

- 1) Pi and Quarles (2012), *Multiligand specificity and wide tissue expression of GPRC6A reveals new endocrine networks*; *Endocrinology*, **153** 2062
- 2) Pi *et al.* (2016), *GPRC6A: Jack of all metabolism (or master of none)*; *Mol. Metab.*, **6** 185
- 3) Pi *et al.* (2018), *Computationally identified novel agonists for GPRC6A*; *PLoS One*, **13** e0195980

**PHYSICAL DATA**

Molecular Weight:	502.37
Molecular Formula:	C <sub>24</sub> H <sub>12</sub> F <sub>6</sub> N <sub>4</sub> O <sub>2</sub>
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 60 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied desiccated at room temperature for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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